

Chassis SX

32 VLC 9040 S	GBI6632
32 VLE 801 DVB-S	GBI8732
32 VLE 2020 S	GBI8832
32 VLE 8041 S	GBI7532
32 VLE 8042 S	GBI8932

37 VLC 300 S	GBI6537
37 VLC 2015 TE	GBI6437
37 VLC 9040 S	GBI6337

40 VLE 2020 S	GBI8840
40 VLE 8041 S	GBI7740
40 VLE 8042 S	GBI8040

Fine Arts 32 S	GBI7832, GBI7932
Fine Arts 40 S	GBI7540, GBI7640
Fine Arts 46 S	GBI7446, GBI7546

Hamburg

32 VLC 8041 S	GBI8332
----------------------	---------

New York 32 S

GBI9532

New York 40 S

GBI9540, GBI9640

New York 46 S

GBI9446

Rom

32 VLE 8061 S	GBI9432
40 VLE 8061 S	GBJ9040

Zusätzlich erforderliche Unterlagen für den Komplettservice
 Additionally required Service Documents for the Complete Service

Service Manual

Sicherheit
 Safety

Materialnr./Part No.
 72010800001

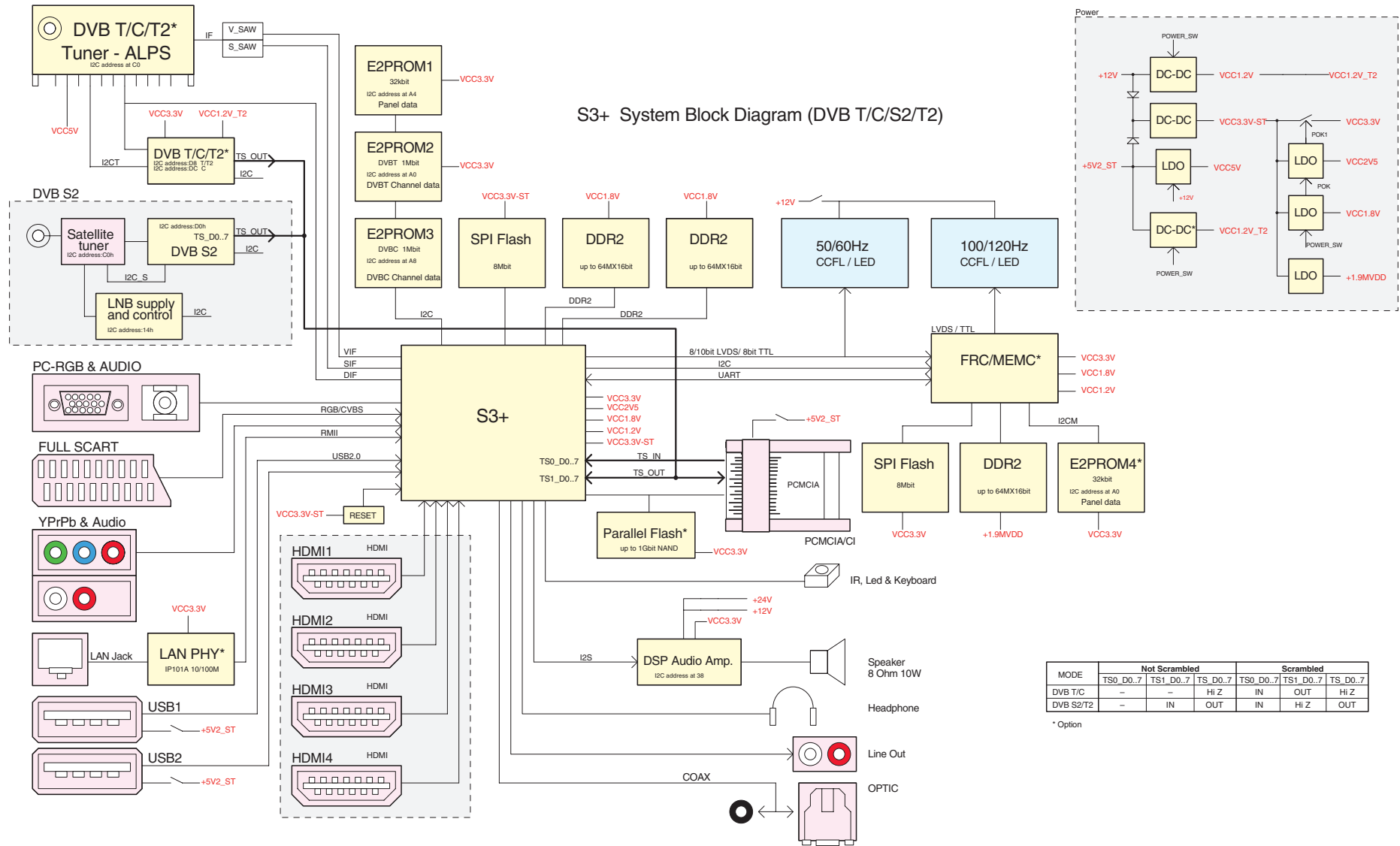
Materialnummer / Part Number 720100555000

Änderungen vorbehalten / Subject to alteration

TCC 0311 MP • Prepared in Germany

<http://www.grundig.com>

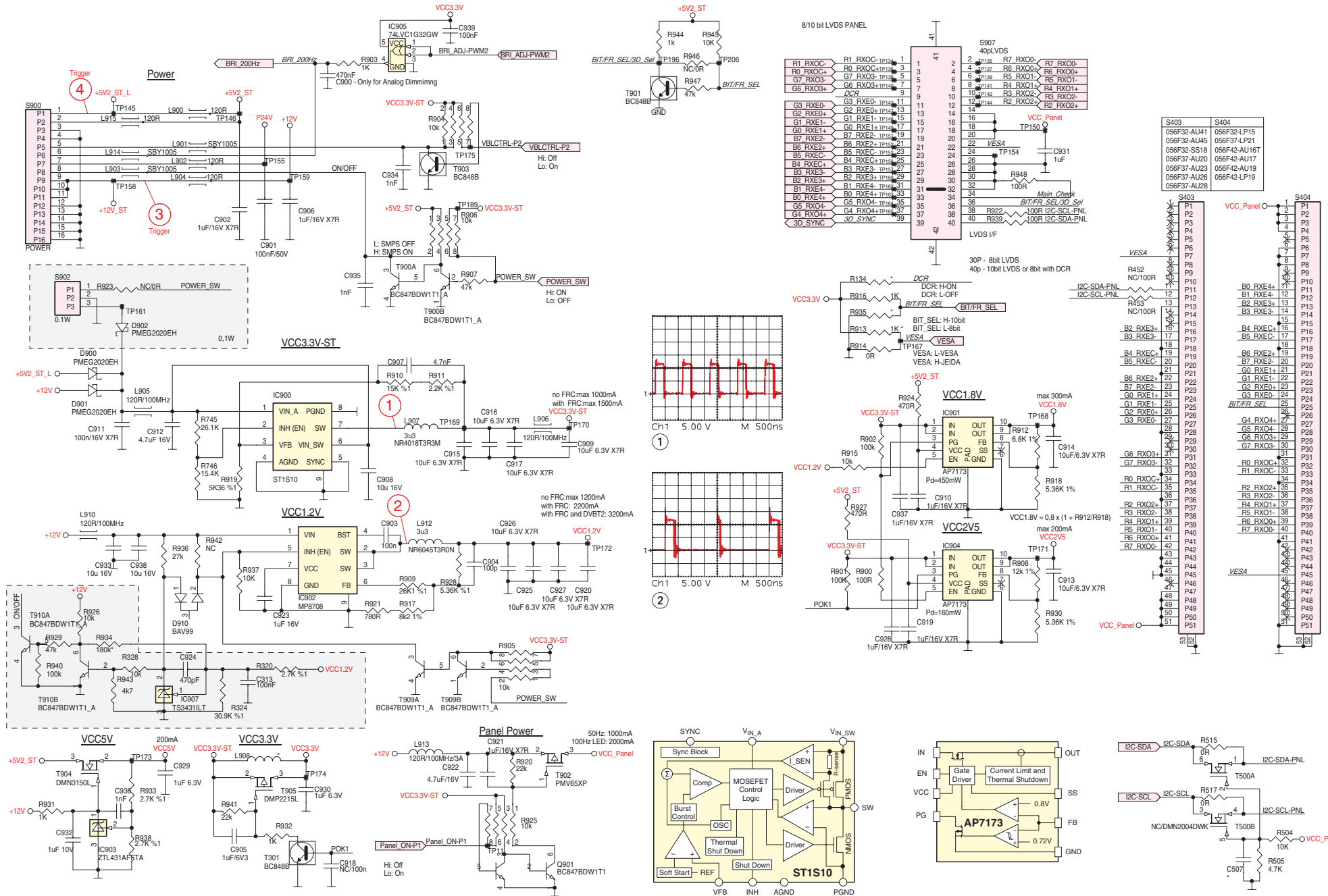
Chassisplatte – Blockschartplan / Chassis Board – Block Circuit Diagram



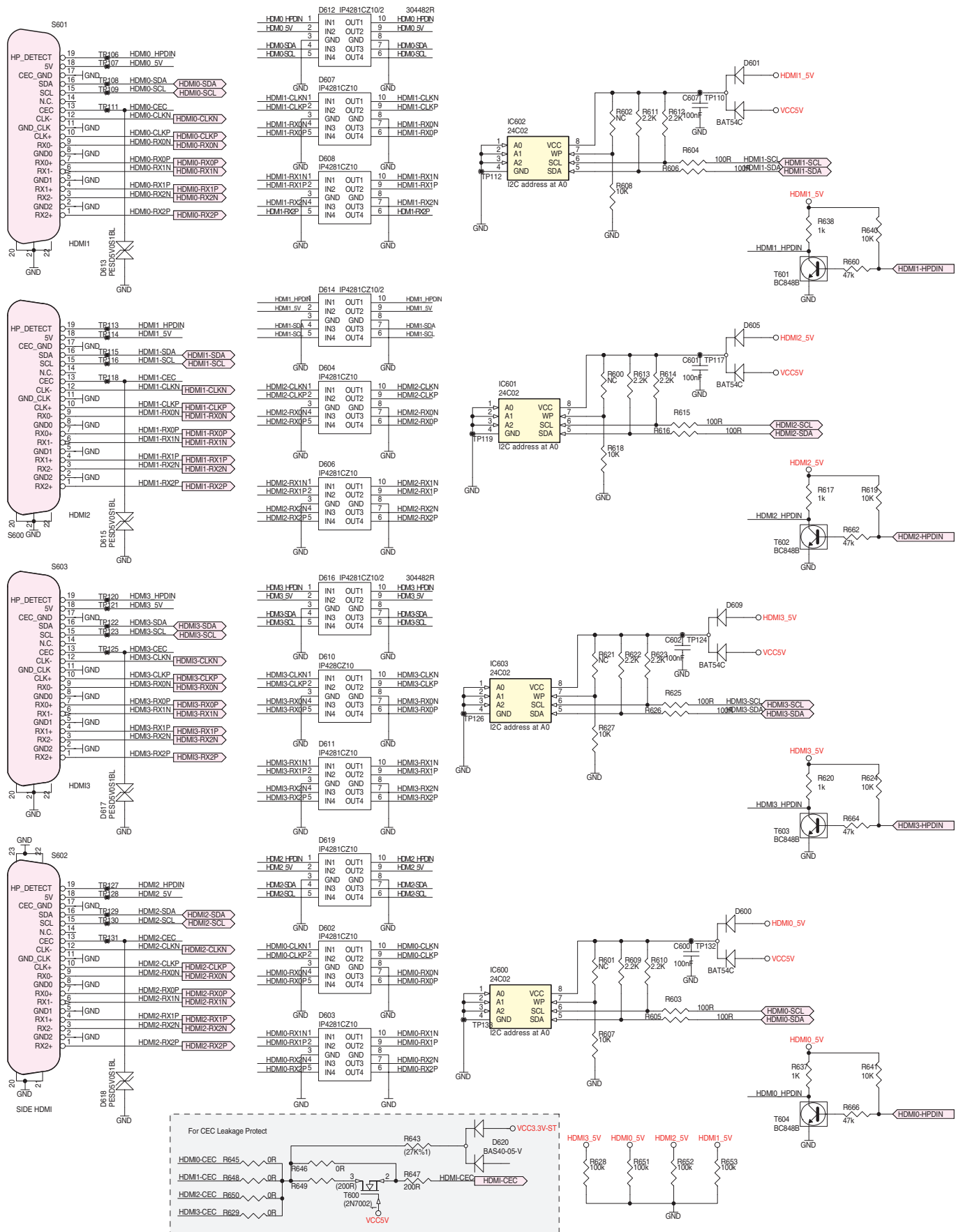
MODE	Not Scrambled			Scrambled		
	TS0_D0..7	TS1_D0..7	TS_D0..7	TS0_D0..7	TS1_D0..7	TS_D0..7
DVB T/C	-	-	Hi Z	IN	OUT	Hi Z
DVB S2/T2	-	IN	OUT	IN	Hi Z	OUT

* Option

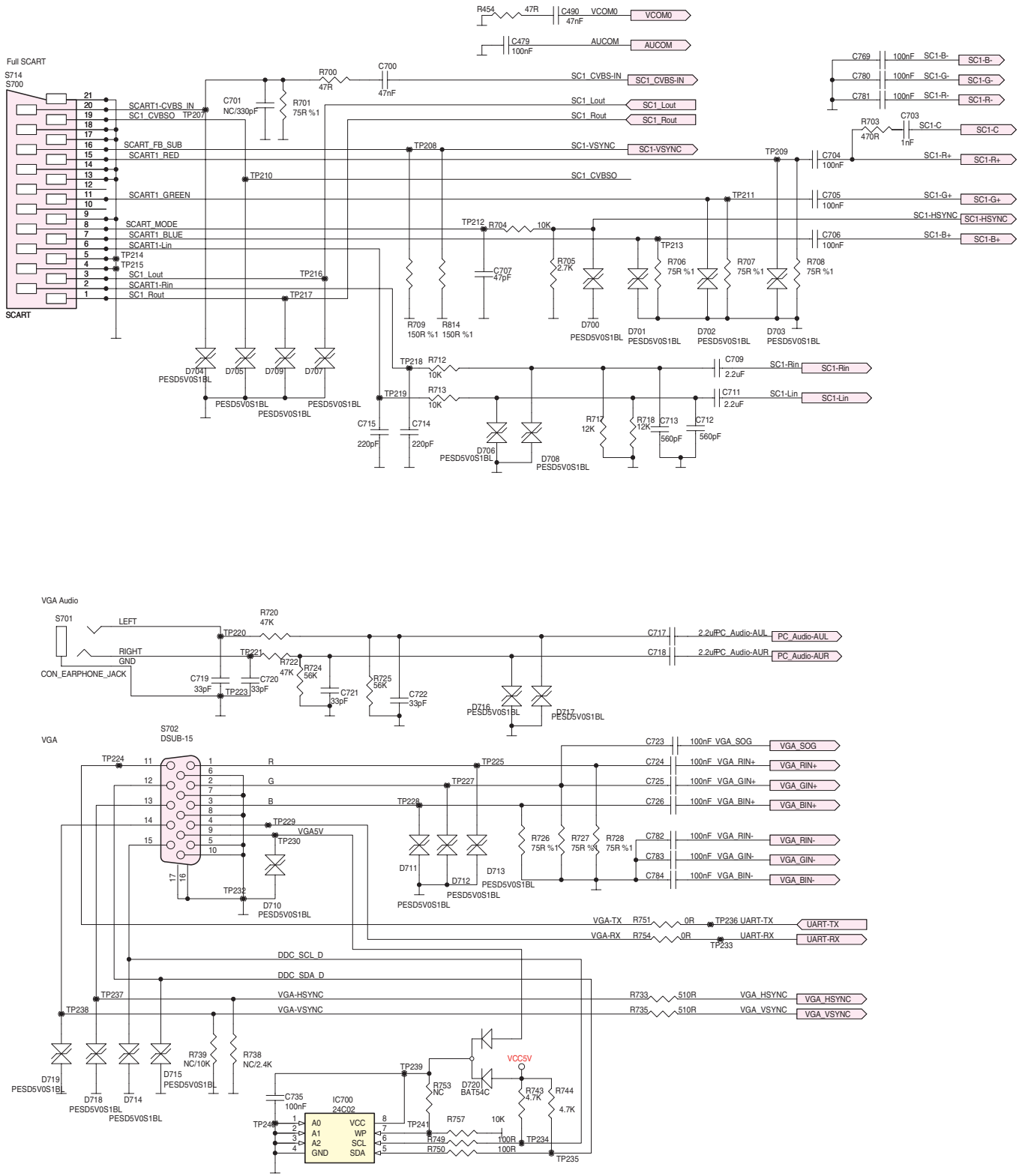
Chassisplatte – Netzteil, LVDS / Chassis Board – Power Supply, LVDS



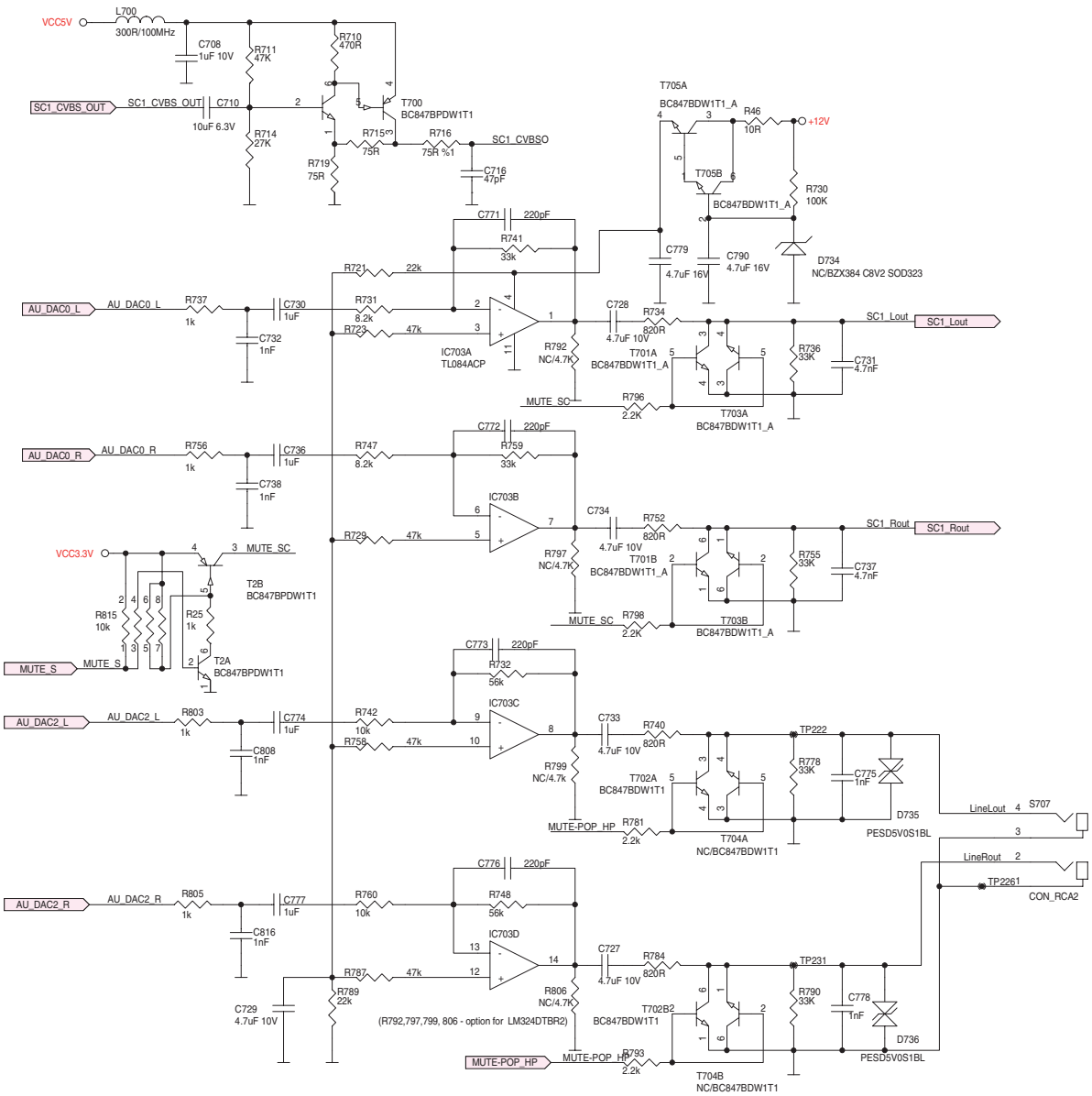
Chassisplatte / Chassis Board – HDMI



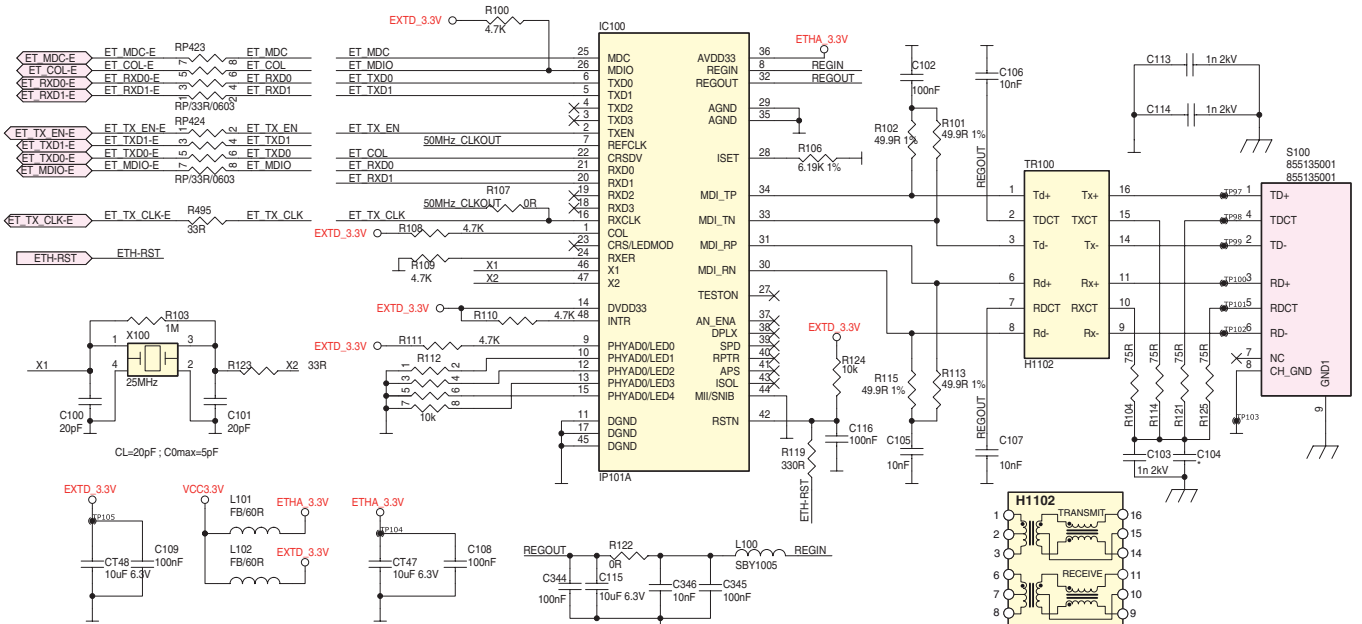
Chassisplatte / Chassis Board – SCART, VGA



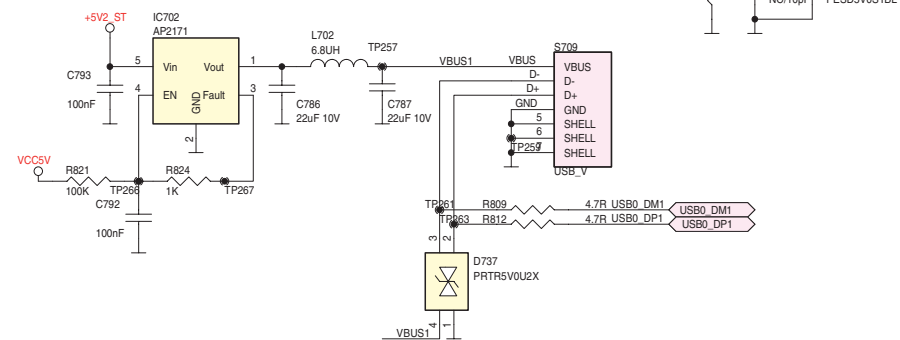
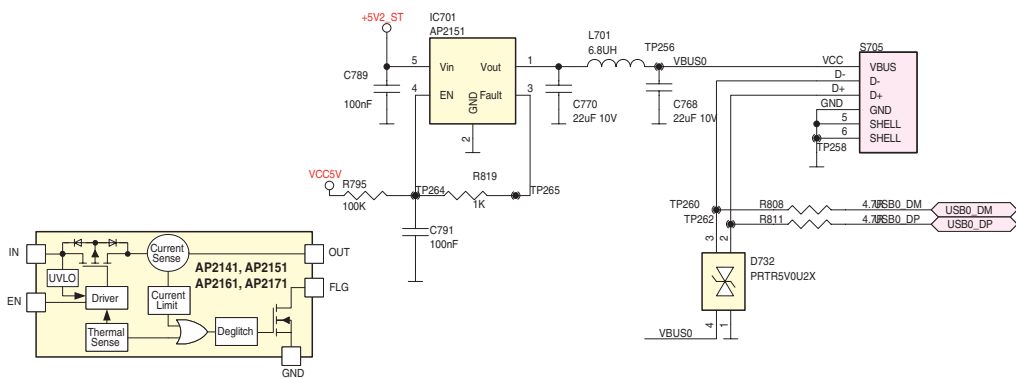
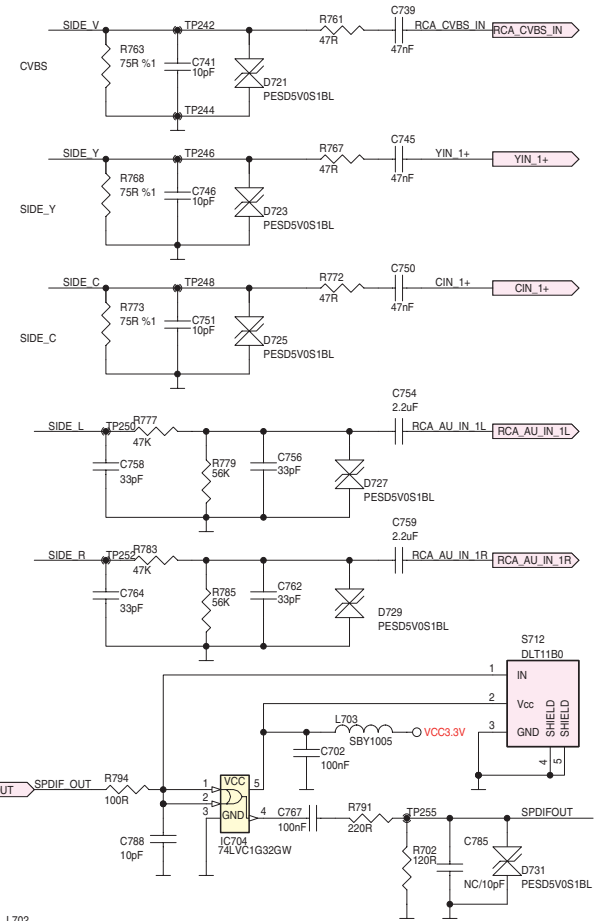
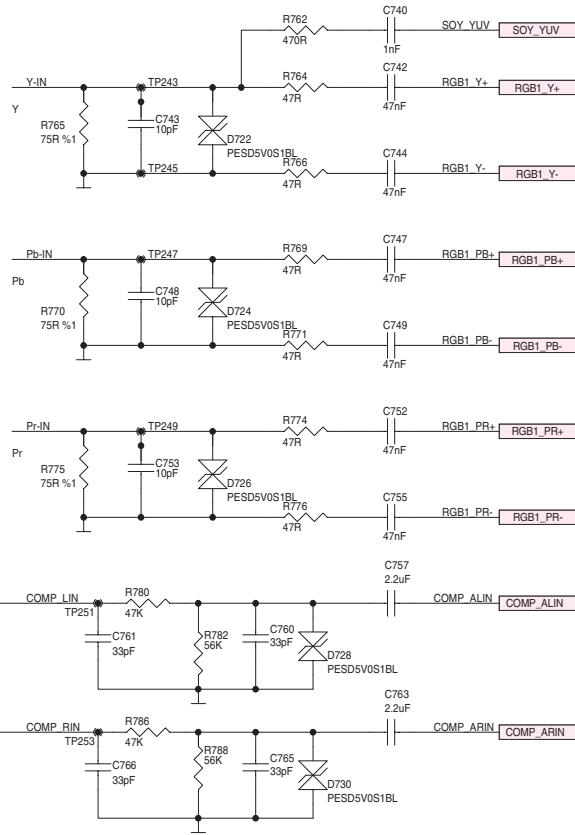
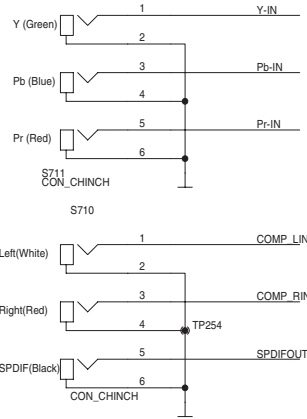
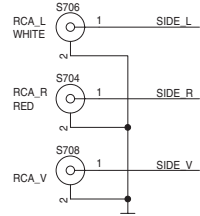
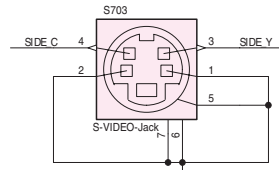
Chassisplatte / Chassis Board – SCART, VGA



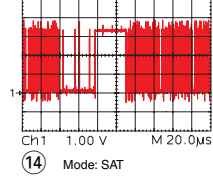
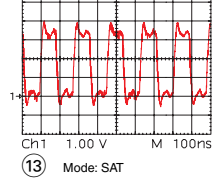
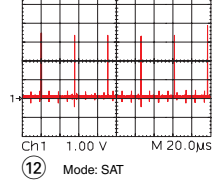
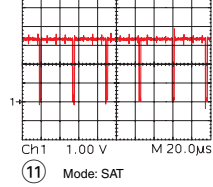
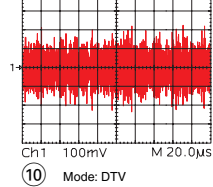
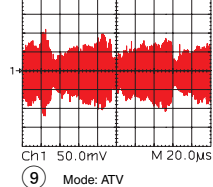
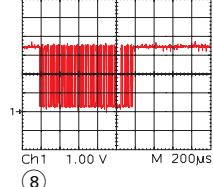
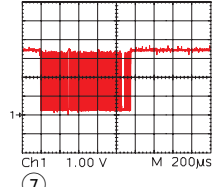
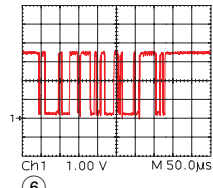
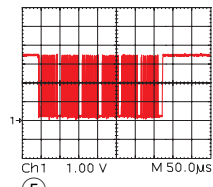
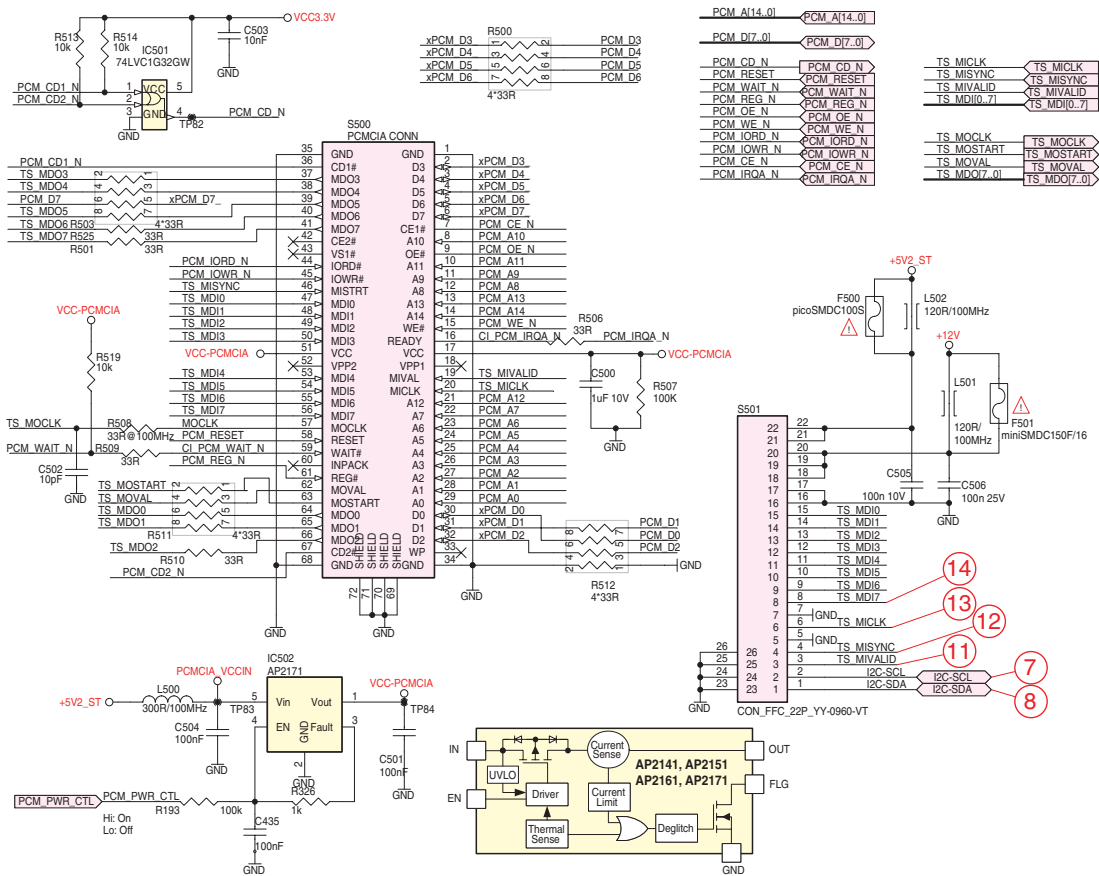
Chassisplatte / Chassis Board – LAN



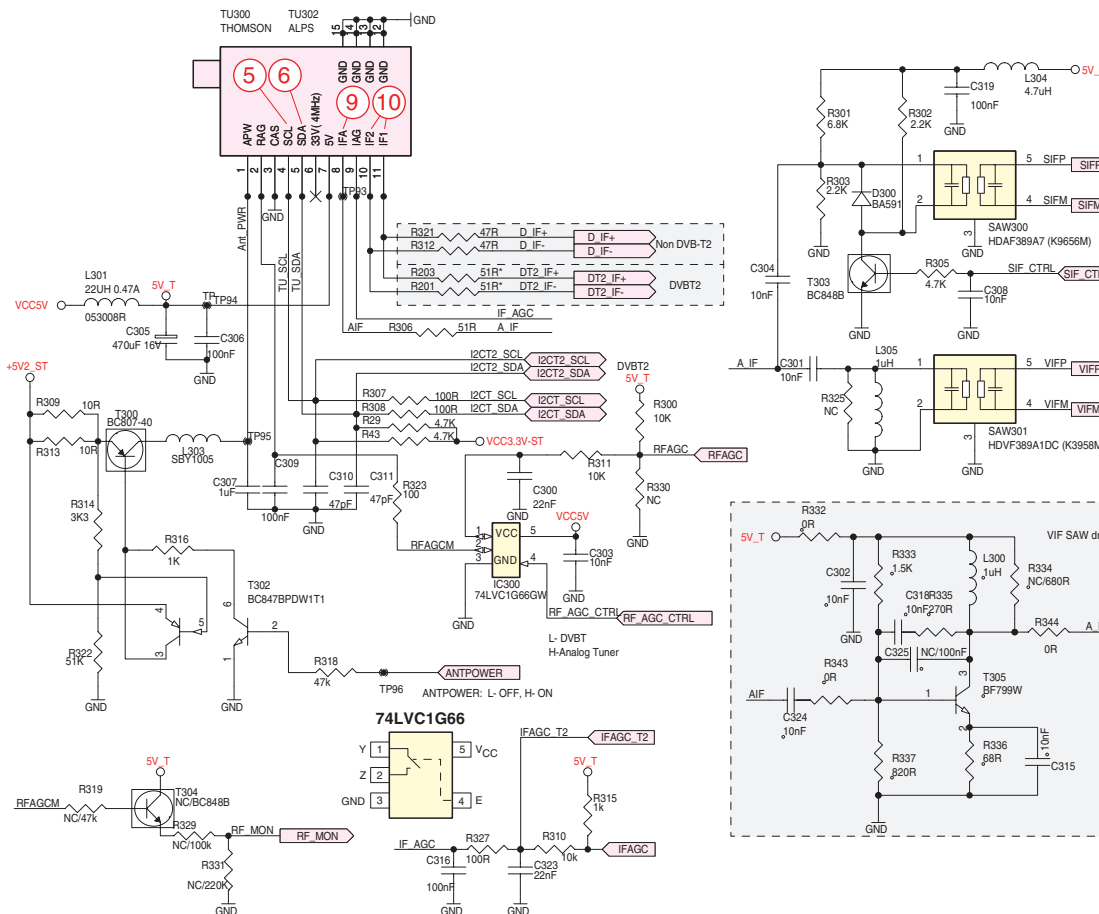
Chassisplatte / Chassis Board – AV, USB



Chassisplatte / Chassis Board – PCMCIA & SAT Interface



Chassisplatte / Chassis Board – Tuner



Chassisplatte / Chassis Board – Scaler

IC402A
MSD3717JX_BGA20.2x20.2

DDR2

A_MADR0	C9	A_MADR0
A_MADR1	B2	A_MADR1
A_MADR2	B8	A_MADR2
A_MADR3	A23	A_MADR3
A_MADR4	A8	A_MADR4
A_MADR5	B23	A_MADR5
A_MADR6	C8	A_MADR6
A_MADR7	A4	A_MADR7
A_MADR8	A7	A_MADR8
A_MADR9	B24	A_MADR9
A_MADR10	C3	A_MADR10
A_MADR11	B7	A_MADR11
A_MADR12	C24	A_MADR12
A_MADR13	B25	A_MADR13
A_MRESSETZ	A25	A_MRESSETZ
A_MCASZ	B9	A_CASZ
A_MRASZ	C10	A_RASZ
A_MWEZ	A20	A_MWEZ
A_MCKE	B10	A_CKE
A_MODT	B21	A_ODT
A_MBADR0	A21	A_BA1
A_MBADR1	C22	A_BA2
A_MBADR2		
A_MDQL0	A12	A_MDATA0
A_MDQL1	B19	A_MDATA1
A_MDQL2	C20	A_MDATA3
A_MDQL3	B20	A_MDATA4
A_MDQL4	A11	A_MDATA5
A_MDQL5	B19	A_MDATA6
A_MDQL6	C13	A_MDATA7
A_MDQL7	A14	A_MDATA8
A_MDQL8	B18	A_MDATA9
A_MDQL9	C13	A_MDATA10
A_MDQL10	B18	A_MDATA11
A_MDQL11	C18	A_MDATA12
A_MDQL12	B18	A_MDATA13
A_MDQL13	C17	A_MDATA14
A_MDQL14	B14	A_MDATA15
A_MDQL15		
A_MDOU0	A16	A_DQM0
A_MDOU1	B17	A_DQM1
A_MDOU2		
A_MDOU3	B16	A_DQS0P
A_MDOU4	A15	A_DQS0M
A_MDOU5	B15	A_DQS1P
A_MDOU6	B15	A_DQS1M
A_MDOU7		
A_MCLK	B11	A_MCLK
A_MCLKZ	A10	A_MCLKZ
B_MADRP0	F25	B_MADRP0
B_MADRP1	F24	B_MADRP2
B_MADRP2	AB23	B_MADRP3
B_MADRP3	F23	B_MADRP4
B_MADRP4	AA24	B_MADRP5
B_MADRP5	E24	B_MADRP6
B_MADRP6	AB24	B_MADRP7
B_MADRP7	E23	B_MADRP8
B_MADRP8	D25	B_MADRP9
B_MADRP9	AA23	B_MADRP10
B_MADRP10	D24	B_MADRP11
B_MADRP11	AB25	B_MADRP12
B_MADRP12		
B_MADRP13	D23	B_MADRP14
B_MADRP14	G24	B_MADRP15
B_MRESSETZ	G25	B_CASZ
B_MCASZ	G25	B_RASZ
B_MRASZ	W23	B_CKE
B_MWEZ	H24	B_CKE
B_MCKE	H24	B_ODT
B_MODT	Y23	B_BA0
B_MBADRP0	W25	B_BA1
B_MBADRP1	Y25	B_BA2
B_MBADRP2		
B_MDQL0	G23	B_MDATA0
B_MDQL1	H24	B_MDATA1
B_MDQL2	F24	B_MDATA2
B_MDQL3	G23	B_MDATA3
B_MDQL4	F24	B_MDATA4
B_MDQL5	G25	B_MDATA5
B_MDQL6	H25	B_MDATA6
B_MDQL7	G24	B_MDATA7
B_MDQL8	F25	B_MDATA8
B_MDQL9	H24	B_MDATA9
B_MDQL10	G23	B_MDATA10
B_MDQL11	F23	B_MDATA11
B_MDQL12	G25	B_MDATA12
B_MDQL13	H25	B_MDATA13
B_MDQL14	F25	B_MDATA14
B_MDQL15	G24	B_MDATA15
B_MDQL16		
B_MDOU0	P25	B_DQM0
B_MDOU1	R24	B_DQM1
B_MDOU2		
B_MDOU3	P24	B_DQS0P
B_MDOU4	G25	B_DQS0M
B_MDOU5	R25	B_DQS1P
B_MDOU6	G24	B_DQS1M
B_MDOU7		
B_MCLK	J23	B_MCLK
B_MCLKZ	H25	B_MCLKZ
MVREF	D22	MDDR_VREF

IC402B
MSD3717JX_BGA20.2x20.2

CEC

M5	HDMI0-HPDIN
M6	HDMI0-SCL
M7	HDMI0-SDA
M8	HDMI0-CLKP
G1	HDMI0-CLKN
G2	HDMI0-RX0P
G3	HDMI0-RX0N
J2	HDMI0-RX1P
H3	HDMI0-RX1N
J3	HDMI0-RX2P
J1	HDMI0-RX2N
L6	HDMI1-HPDIN
L4	HDMI1-SCL
K5	HDMI1-SDA
D2	HDMI1-CLKP
D1	HDMI1-CLKN
E2	HDMI1-RX0P
D3	HDMI1-RX0N
F2	HDMI1-RX1P
E3	HDMI1-RX1N
F3	HDMI1-RX2P
F1	HDMI1-RX2N
AD5	HDMI2-HPDIN
AC8	HDMI2-SCL
AD6	HDMI2-SDA
AD7	HDMI2-CLKP
AC7	HDMI2-CLKN
AC8	HDMI2-RX0P
AE7	HDMI2-RX0N
AD8	HDMI2-RX1P
AD9	HDMI2-RX1N
AC9	HDMI2-RX2P
AC9	HDMI2-RX2N
K6	HDMI3-HPDIN
K4	HDMI3-SCL
K4	HDMI3-SDA
AC	HDMI3-CLKP
B3	HDMI3-CLKN
R5	HDMI3-RX0P
R2	HDMI3-RX0N
R0	HDMI3-RX1P
C2	HDMI3-RX1N
B1	HDMI3-RX2P
AD3	HDMI3-RX2N
C1	HDMI3-RX2N
N5	VGA_HSYNC
P6	VGA_VSYNC
K1	VGA_RIN+
K2	VGA_RIN-
K3	VGA_BIN+
L2	VGA_BIN-
L3	VGA_SOG+
M2	VGA_GIN+
M1	VGA_GIN-
P5	SC1-VSYNC
R6	RGB1_PB+
P3	RGB1_PB-
R2	RGB1_PB+
M3	RGB1_PB-
N1	RGB1_PB+
K2	SD1_YUV
N3	RGB1_Y+
P2	RGB1_Y-
R5	HSYNC2_1
R1	SC1-R+
R3	SC1-R-
L2	SC1-B+
L3	SC1-B-
U3	SC1-G+
T1	SC1-G-
T2	SC1-G+
T3	SC1-G-
Y3	SC1_CVBS_IN
Y2	RCA_CVBS_IN
W1	VCOM
V3	YIN_+
V1	CIN_+
V2	C401
W3	SC1-C1
W3	SC1-C1
W2	SC1_CVBS_OUT
AA3	

HDMI

RGB

CVBS_IN

S-Video

CVBS_OUT

IC402E
MSD3717JX_BGA20.2x20.2

Crystal

AB1	XTALO
AB2	XTALI
B5	SPI_SDI
B6	SPI_SDO
C7	SPI_SCK
B4	USB0_DP1
G4	USB0_DM1
AD10	USB0_DP
AC10	USB0_DM
C5	EE_WP
A5	BITFR_SEL_C
G5	SAR0
SAR0	SAR1
F4	RF_MON
SAR2	SAR3
H5	IRIN
AC25	RF_AGC_CTRL (PWM0)
AC24	ANTPOWER (PWM1)
AC23	SPI_ADJ_PWM2_C
AB22	VBLCTRL_P2
E4	MUTE_S
W9	Panel_ON-P1
F5	FLASH_WPN-C
D8	POWER_SW
Y9	LED_R
D5	SPI_CS0N
E5	PCM_PWR_CTL
AD25	R6_RX00-
AE25	R7_RX00+
AD24	R4_RX01-
AE24	R5_RX01+
AD23	R2_RX02-
AE23	R3_RX02+
AD22	R0_RX0C-
AE22	R1_RX0C+
AD21	G6_RX03-
AE21	G7_RX03+
AD20	G4_RX04-
AE20	G5_RX04+
AC20	G3_RXE0-
AE20	G2_RXE0+
AC19	G0_RXE1-
AE19	G1_RXE1+
AC18	B6_RXE2-
AE18	B7_RXE2+
AC17	B4_RXE3-
AE17	B5_RXE3+
AC16	B0_RXE4-
AE16	B1_RXE4+
AC15	B2_RXE3-
AE15	B3_RXE3+
AC14	B0_RXE4-
AE14	B1_RXE4+
AA22	R416
Y22	R417
M4	R50
R411	R411
Y10	Y10
AA10	AA10
D12	D12
G12	G12

SPI Flash

USB

SAR

PWM

GPIO

LVDS

MI2C

UART

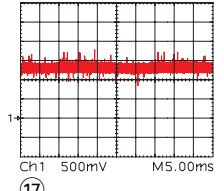
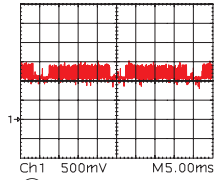
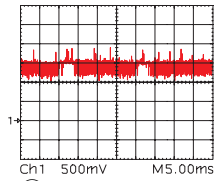
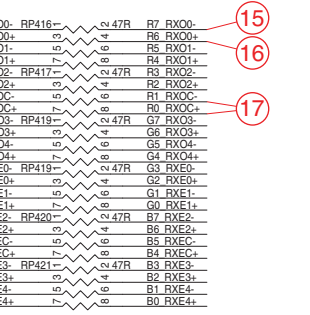
TESTPIN

GND_EFUSE

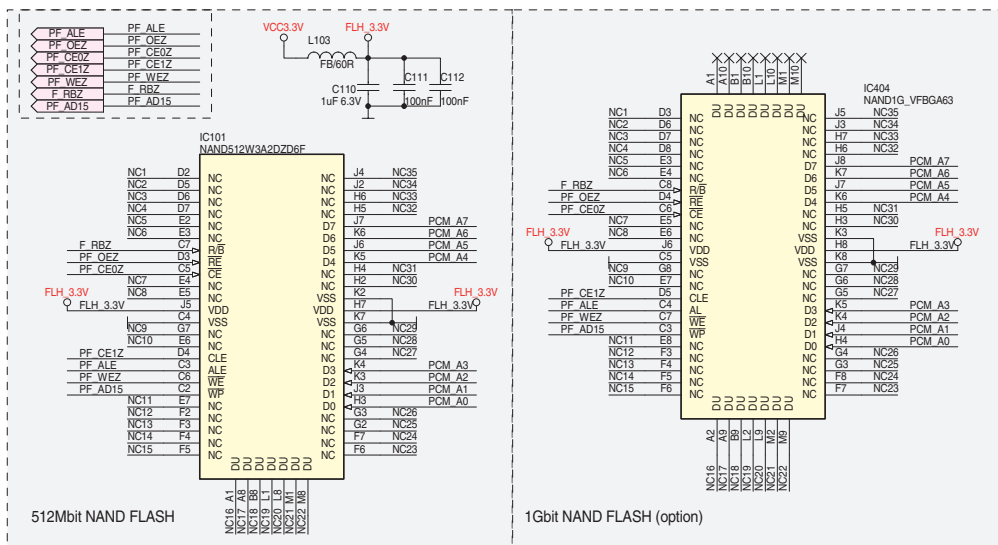
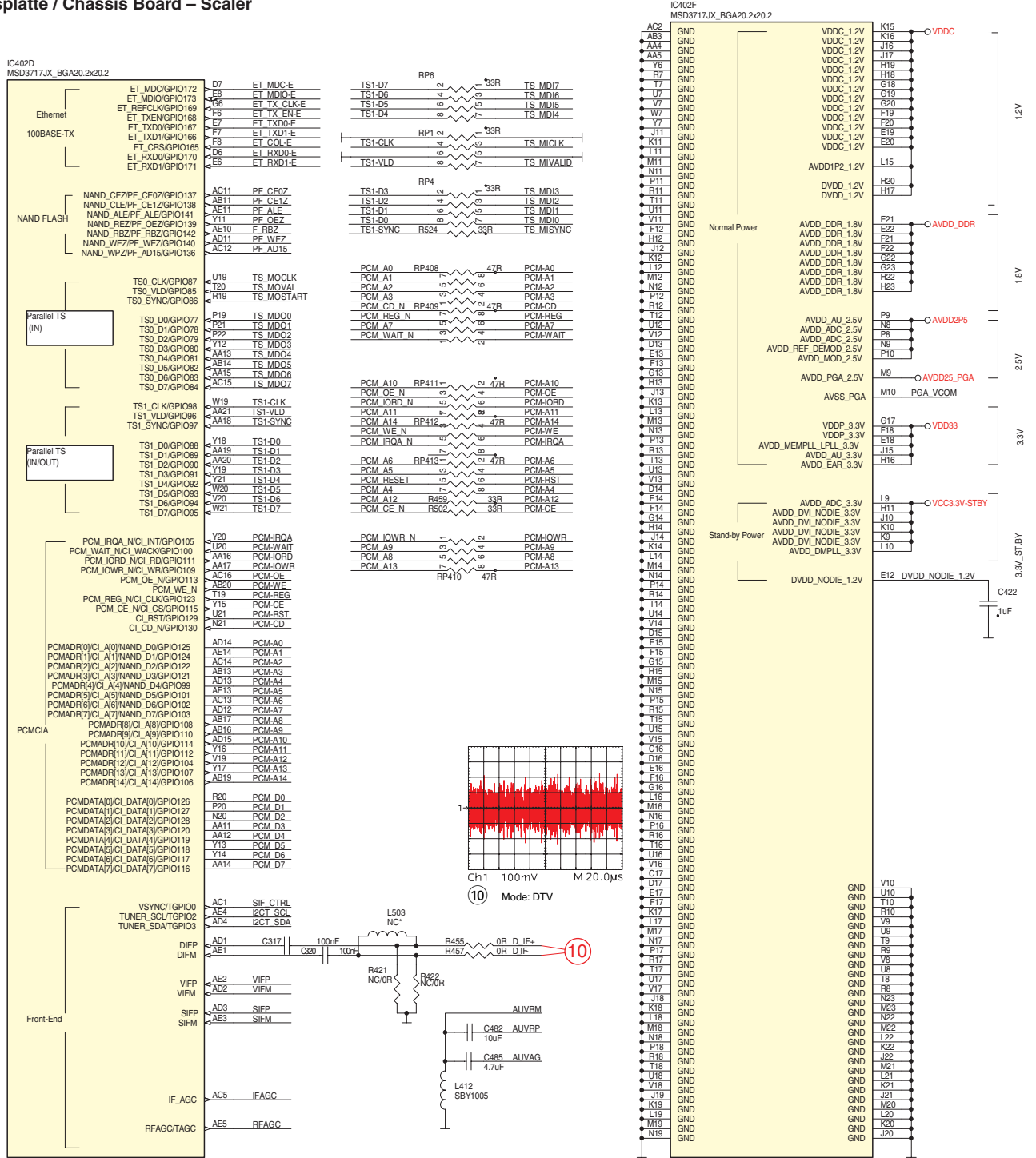
IC402C
MSD3717JX_BGA20.2x20.2

AUDIO

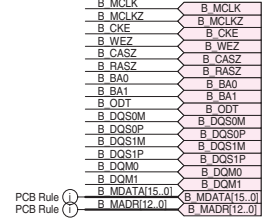
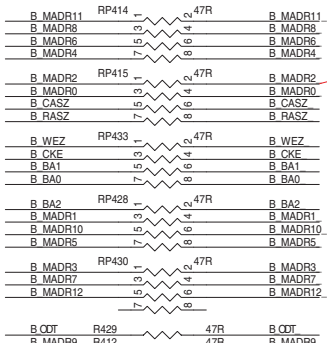
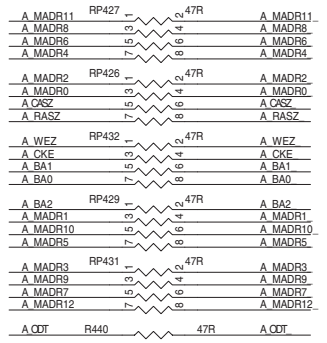
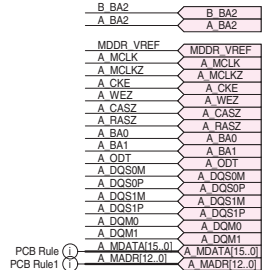
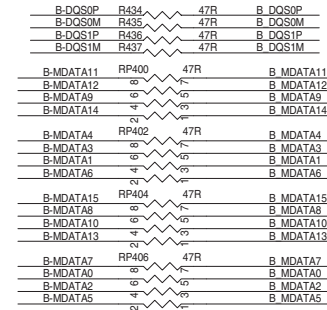
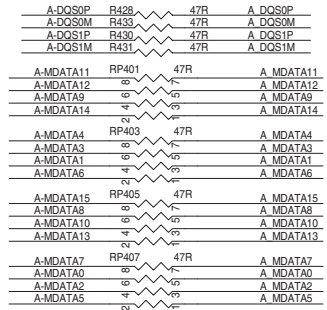
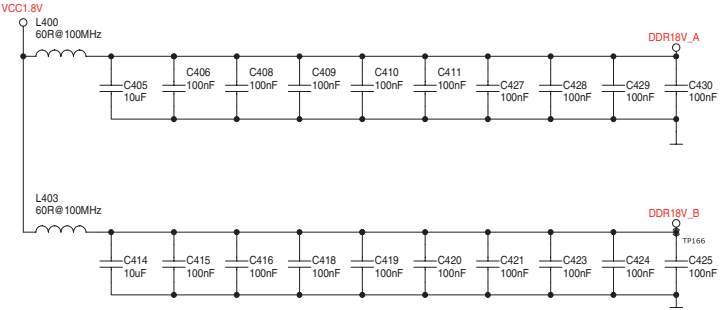
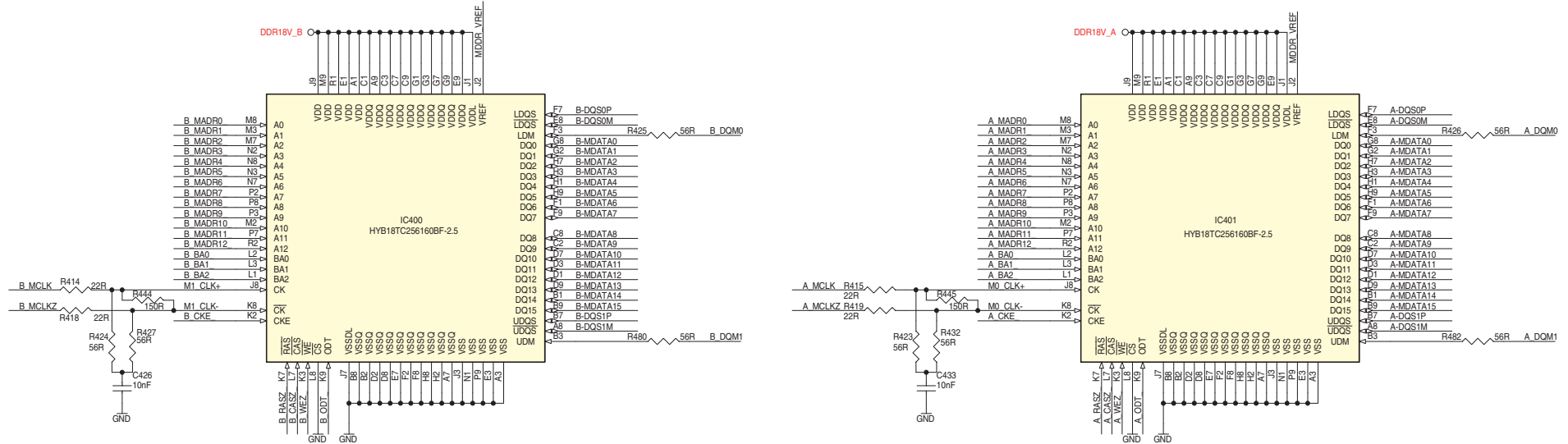
T6	PC_Audio-AUR
R4	COMP_AUL
F5	COMP_ARIN
T4	COMP_ALIN
U5	
U6	
V5	RCA_AU_IN_1R
V6	RCA_AU_IN_1L
W6	SC1-Rin
V4	SC1-Lin
AB6	AU_DAC0_R
AB5	AU_DAC0_L
AA1	EAR_AU_OUT_R
AA2	EAR_AU_OUT_L
AB7	AU_DAC2_R
AA7	AU_DAC2_L
W5	MICIN
W4	MICCM
T4	MIC_DETIN
AA6	AUCOM
AC4	AUVAG
AC3	AUVRP
AB4	AUVRM
AB18	SPI_OUT
Y5	SPI_OUT
A3	RESET_OUT
AA9	AMP_STB
D4	MUTE-POP
Y8	AUWS_OUT
W8	AUMCK_OUT
AA8	AUBCK_OUT
AB8	AUSD_OUT



Chassisplatte / Chassis Board – Scaler

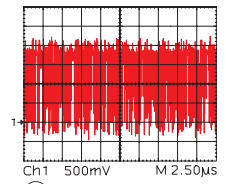


Chassisplatte / Chassis Board – Scaler-RAM

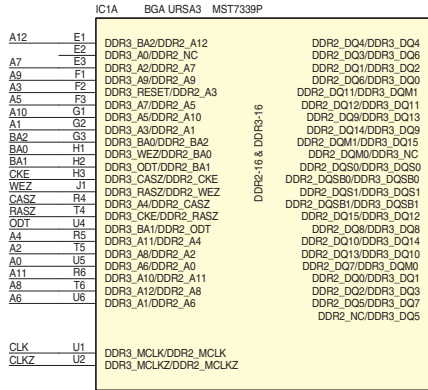
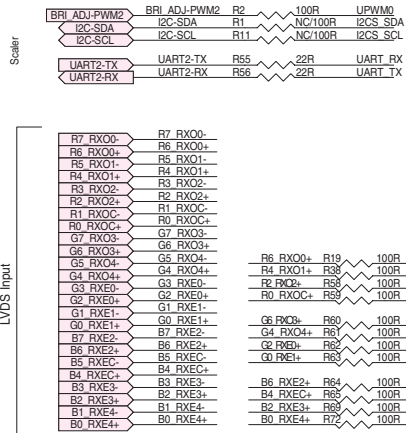


18

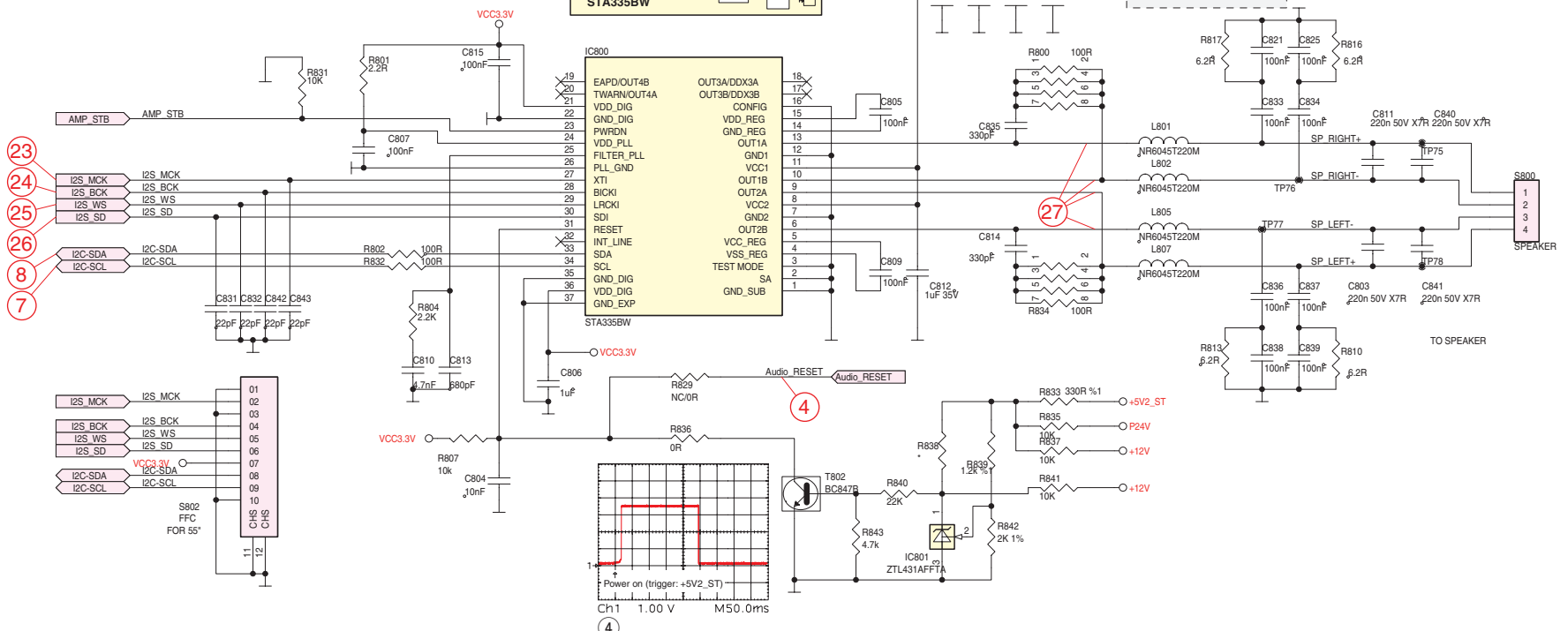
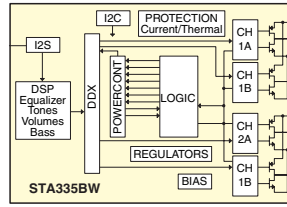
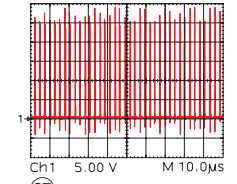
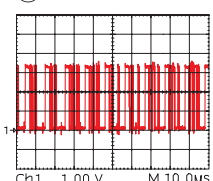
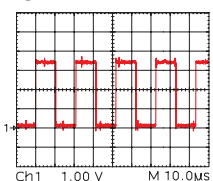
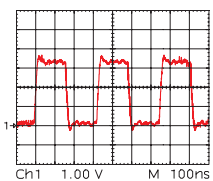
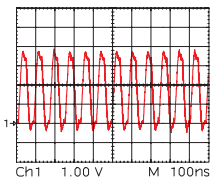
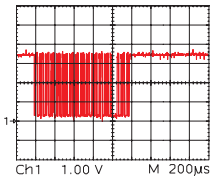
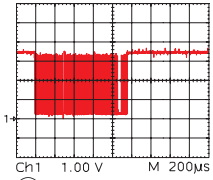
18



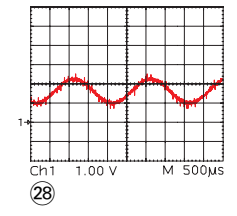
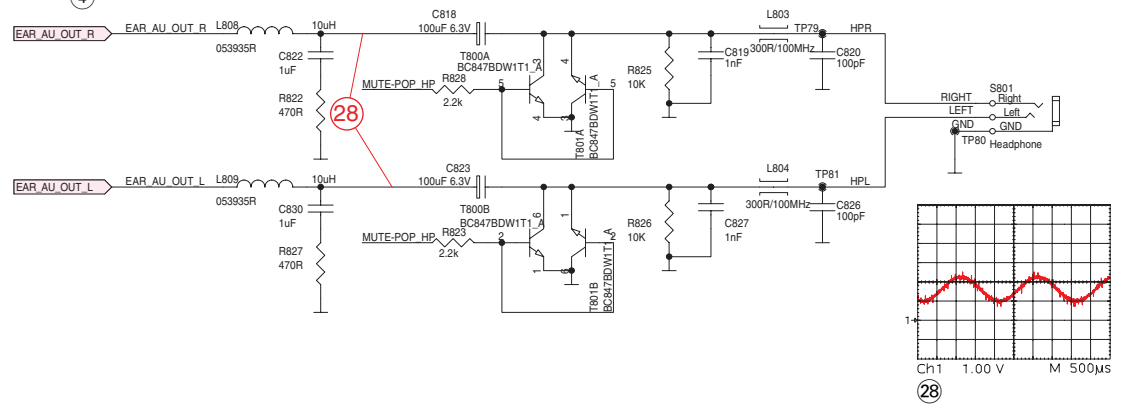
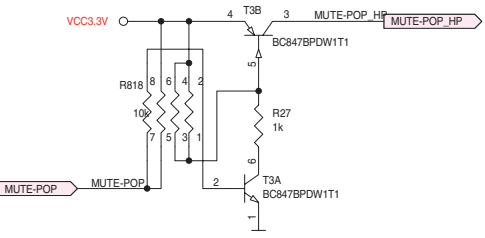
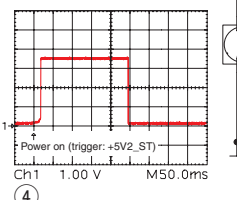
Chassisplatte / Chassis Board – FRC

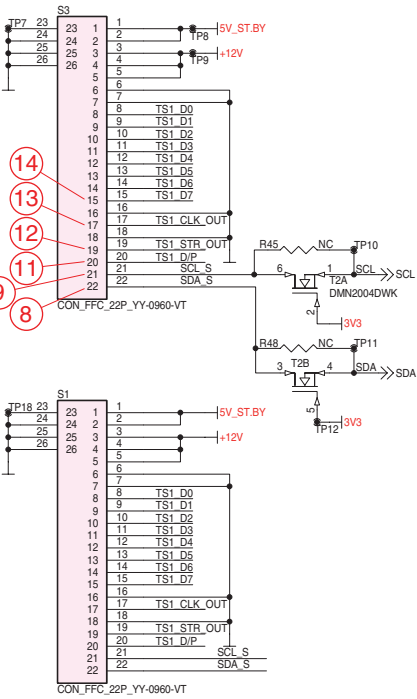
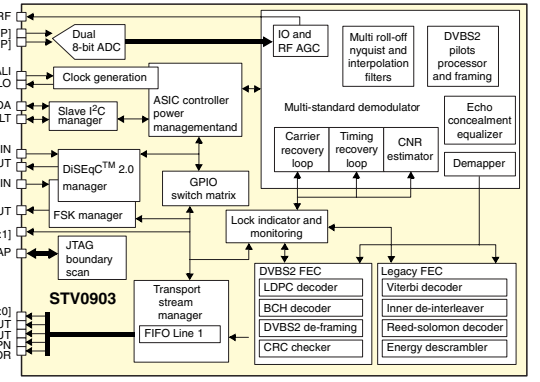
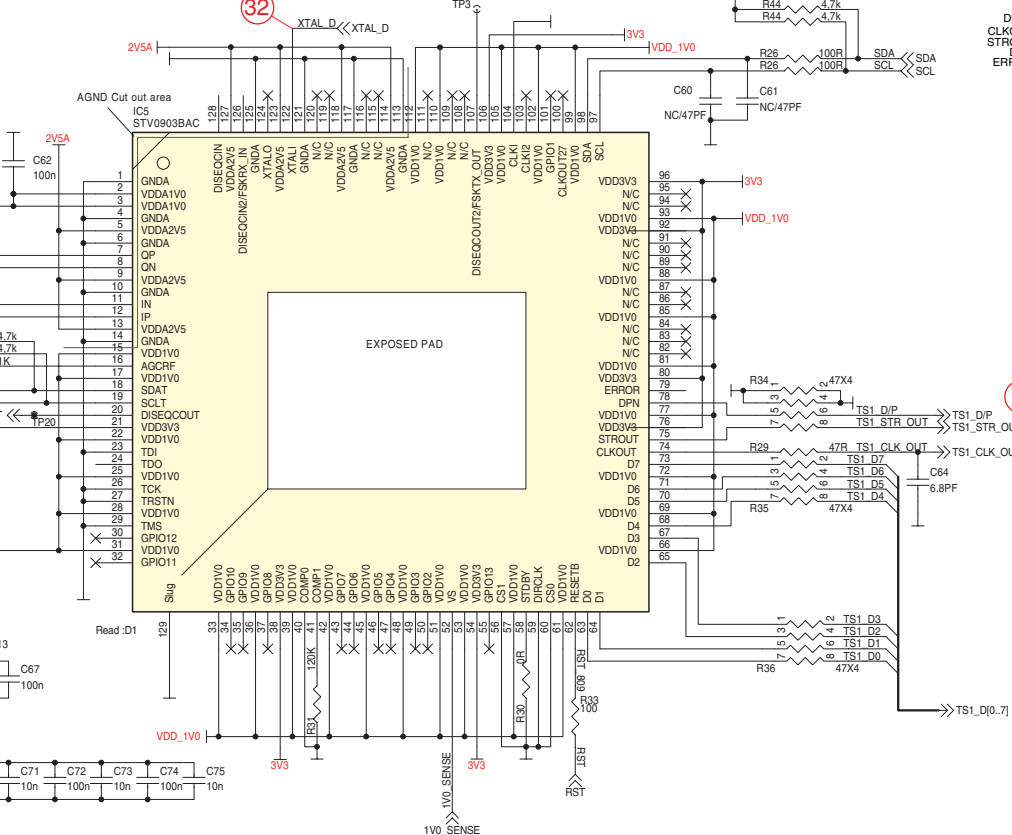
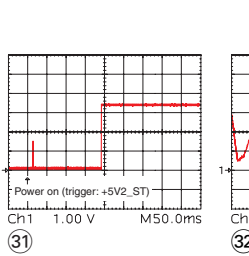
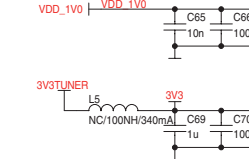
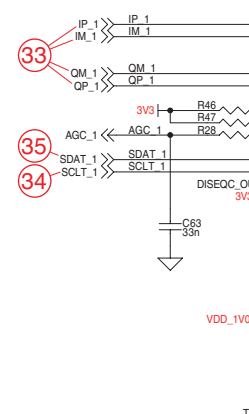
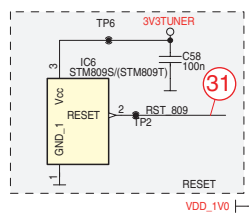
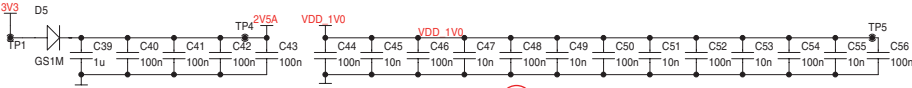
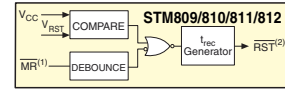
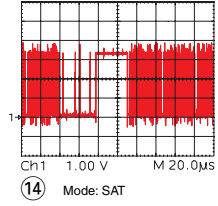
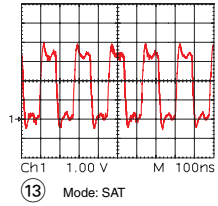
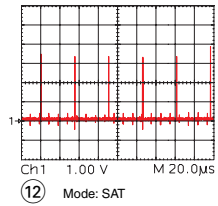
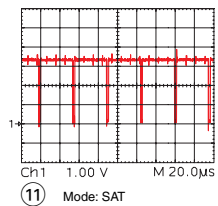
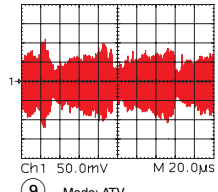
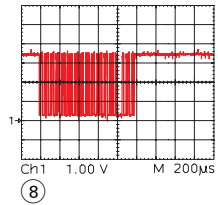


Chassisplatte – Verstärker / Chassis Board – Amplifier



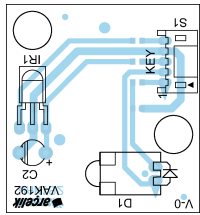
- 23
- 24
- 25
- 26
- 8
- 7



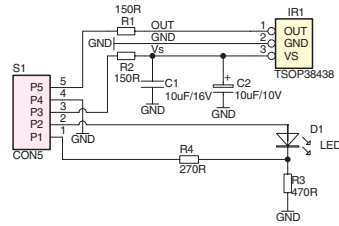
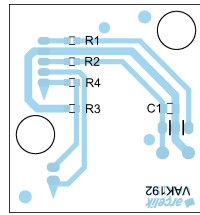


IR-/LED-Platte / Board VAK192

Ansicht von der Bestückungsseite
View of Component Side

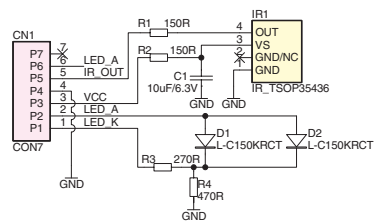
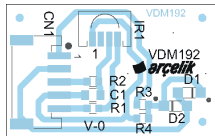


Ansicht von der Lötseite
View of Solder Side



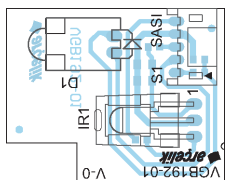
IR-Empfänger / Receiver VDM192

Ansicht von der Lötseite / View of Solder Side

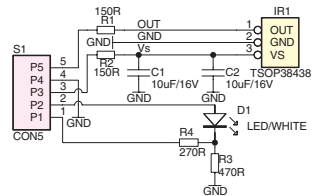
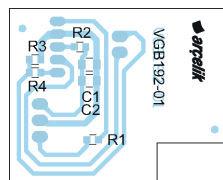


IR-Empfänger / Receiver VGB192

Ansicht von der Bestückungsseite
View of Component Side

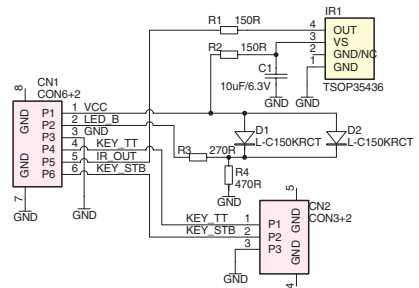
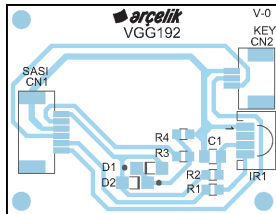


Ansicht von der Lötseite
View of Solder Side



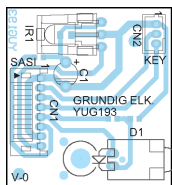
IR-Empfänger / Receiver VGG192

Ansicht von der Lötseite / View of Solder Side

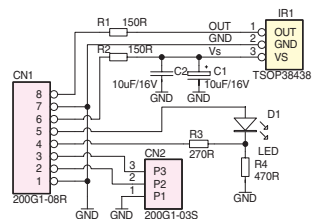
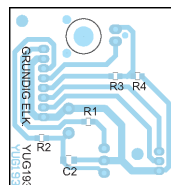


IR-Empfänger / Receiver YUG193

Ansicht von der Bestückungsseite
View of Component Side

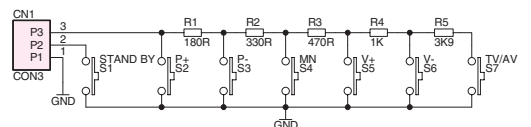
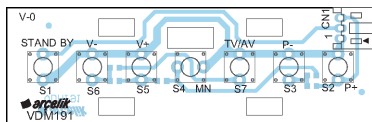


Ansicht von der Lötseite
View of Solder Side



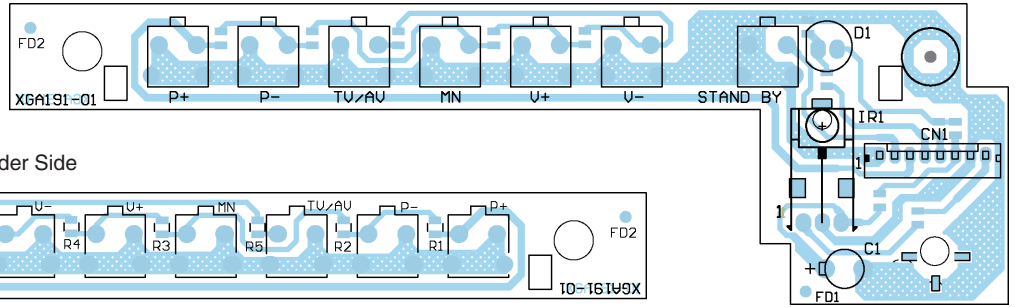
Keyboard VDM191

Ansicht von der Lötseite / View of Solder Side

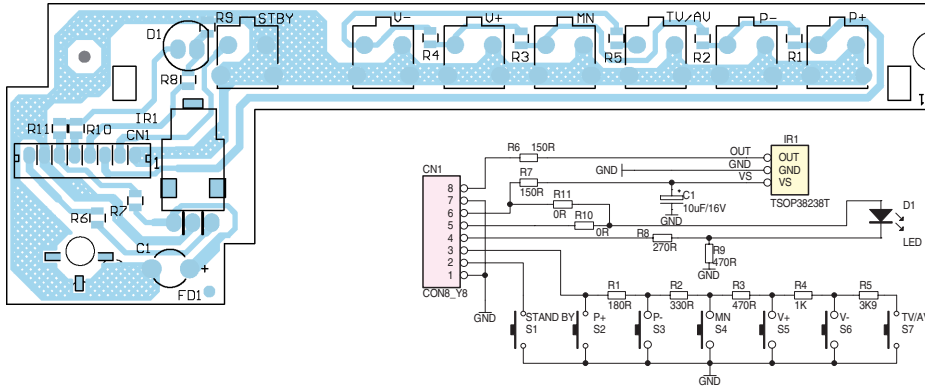


Keyboard XGA191

Ansicht von der Bestückungsseite / View of Component Side

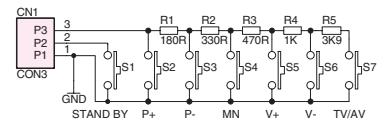
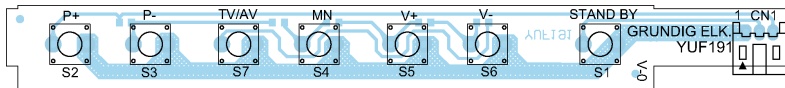


Ansicht von der Lötseite / View of Solder Side

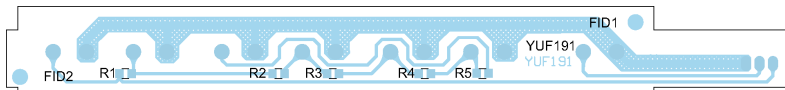


Keyboard YUF191

Ansicht von der Bestückungsseite / View of Component Side

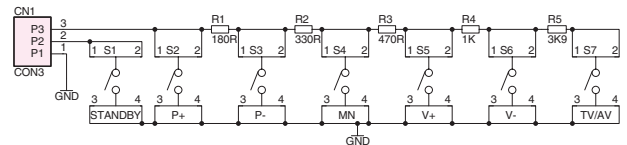
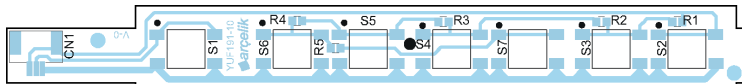


Ansicht von der Lötseite / View of Solder Side



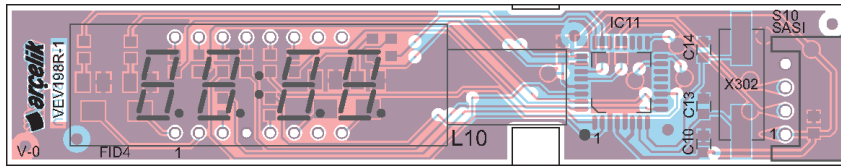
Keyboard YUF191-10

Ansicht von der Lötseite / View of Solder Side



Uhr / Clock VEV198

Ansicht von der Bestückungsseite / View of Component Side



Ansicht von der Lötseite / View of Solder Side

